V2GSM

GSM Speech Dialler with Automation Control

PROGRAMMING AND INSTALLATION MANUAL

Pyronix®

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CHAPTER 1: CONTENTS PAGE

CHAPTER 1: CONTENTS PAGE 3

CHAPTER 2: INTRODUCTION 5

CHAPTER 3: POWERING UP / ENGINEERS MENU 6

3.1 ENTERING THE ENGINEERS MODE 6

3.2 EXITING THE ENGINEERS MODE 6

CHAPTER 4: OPERATING THE KEYPAD 7

4.1 SCROLLING THROUGH MENUS 7

4.2 ENTERING TEXT 8

CHAPTER 5: V2 GSM PROGRAMMING 10

5.1 PLAY / RECORD SYSTEM MESSAGES [100]: 10

5.1.1 Play / Record Low Battery Message [101] 10

5.1.2 Play / Record Battery Restore Message [102] 10

5.1.3 Play / Record Test Message [103] 10

5.1.4 Playing / Recording / Deleting Messages (101,102,103) 10

5.1.5 SMS low battery message [131] 11

5.1.6 SMS test message [132] 11

5.1.7 SMS battery restore message [133] 11

5.1.8 Entering SMS messages 11

5.2 CALL REDIALS [150] 12

5.3 COPY NUMBER OF REDIALS FOR TEL#1 TO ALL [160] 12

5.4 IMMEDIATE NUMBER OF REDIALS [165] 13

5.5 DEFERRED REDIAL DELAY [170] 13

5.6 DEFAULT CALL TIMEOUT [171] 14

5.7 CALLING STRATEGY [172] 14

5.8 DIAL ALL NUMBERS [173] 14

5.9 VOICE MESSAGE REPEATS [174] 15

5.10 TEST CALL PERIOD [175] 15

5.11 S.O.L. TEST CALL ONLY [176] 15

5.12 RINGS BEFORE ANSWER [177] 16

5.13 ENABLE REMOTE CONTROL [180] 16

5.14 TELEPHONE NUMBER INPUT ALLOCATION [200] 17

5.15 COPY TEL#1 ALLOCATION TO ALL [250] 17

5.16 ENABLE A.N.R. FOR TEL# [300] 18

5.17 AUTO LEARN INPUT STATUS [350] 18

5.18 PROGRAM INPUT STATUS [400] 19

5.19 INPUT RESPONSE TIME [450] 20

5.20 INPUT TRIGGER VOLTAGE [500] 20

5.21 INPUT RESTORE VOLTAGE [530] 21

5.22 LOCAL INPUT DIAGNOSTICS [550] 21

5.23 ENABLE ABORT INPUT#6 [580] 22

5.24 ENABLE STATUS INPUT #5 [581] 22

5.25 CALL TELEPHONE NUMBER [600] 22

5.26 SET SIM-CARD SECRET PIN [601] 23

5.27 TEST LISTEN IN MICROPHONE [602] 23

5.28 TEST REMOTE SPEAKER [603] 23

5.29 VIEW EVENT LOG [604] 24

5.30 ERASE EVENT LOG [605] 24

5.31 CHANGE ENGINEER CODE [606] 24

5.32 RESET TO FACTORY DEFAULTS [607] 25

5.33 SIM TELEPHONE NUMBER [608] 25

5.34 ENABLE EXPANDER OUTPUT MODULES [650] 25

5.35 PGM OUTPUT FUNCTIONS [660] 26

5.36 PGM OUTPUT TIMERS [680] **27**
5.37 OUTPUT CONTROL [700] **28**

CHAPTER 6: USER MENU PROMPTS **29**
6.1 USER MENU PROMPTS **29**
6.1.1 Play/Record Remote Prompt: 1 [111] *29*
6.1.2 Play/Record Remote Prompt: 2 [112] *29*
6.1.3 Play/Record Remote Prompt: 3 [113] *29*
6.1.4 Play/Record Remote Prompt: 4 [114] *30*
6.1.5 Play/Record Remote Prompt: 5 [115] *30*
6.1.6 Play/Record Remote Prompt: 6 [116] *30*
6.1.7 Play/Record Remote Prompt: 7 [117] *31*
6.1.8 Play/Record Remote Prompt: 8 [118] *31*
6.1.9 Play/Record Remote Prompt: 9 [119] *31*
6.1.10 Play/Record Remote Prompt: 9 [120] *32*
6.1.11 Play/Record Remote Prompt: 9 [121] *32*

CHAPTER 7: INSTALLATION SECTION **33**
7.1 THE V2 GSM PRINTED CIRCUIT BOARD **33**
7.1.1 System Overview: *33*
7.2 TECHNICAL SPECIFICATION **34**
7.3 OPENING THE V2 GSM **34**
7.4 SCREW MOUNTING HOLES **34**
7.5 INSTALLING A SIM-CARD **35**
7.6 WARRANTY **35**
7.7 CONNECTING AN INPUT EXPANDER (PCX-RIX8) **36**
7.8 CONNECTING AN OUTPUT EXPANDER (PCX-ROX16R) **37**
7.9 THE ANTENNA **38**
7.10 CONNECTING OTHER EQUIPMENT **39**

CHAPTER 8: SHORTCUT FUNCTION REFERENCE **40**

CHAPTER 2: INTRODUCTION

The V2 GSM is 2 way GSM audio communication and remote automation module. It can be used as a stand alone system or it can be connected to the programmable outputs of any control panel.

There are 6 inputs onboard. Input No 5 can be programmed as a system status input and Input No 6 can be programmed as an abort input. A remote 8 inputs expander (RIX) can be connected to the V2 GSM, giving a maximum of 14 inputs (including the 6 onboard).

There are 4 programmable outputs on-board. Up to 3 remote 16 relay output expanders (ROX) can be also connected to the V2 GSM giving a maximum of 52 outputs in total.

Up to 9 telephone numbers can be programmed, and either a voice message or SMS text maybe sent after activation.

The V2 GSM also has a user menu that can be accessed by dialling the V2 GSM directly (this is a mobile number that is supplied).

The V2 GSM has the following features:

- Call any telephone number (just like a mobile phone)
- Supports 2 way speech via the built on SPK and microphone
- Activate outputs (to turn on lights, open gates, etc)
    - Locally via the integrated keypad
    - Remotely via SMS or voice menu command
- Program voice messages (Up to 14, 1 for each alarm input)
- Program SMS messages (Up to 14, 1 for each alarm input)
- Send SMS or voice alerts to up to 9 different user phone numbers
- View the V2 event log (256 events, time and date)
- Remotely by phone operate the V2 using the built in voice menu:
    - Listen in
    - Talk and listen
    - Control output
    - Check the status of an external device that is connected to the V2 (for example system armed or disarmed)
- Remotely by SMS text commands operate the V2:
    - Change telephone number
    - Control outputs
    - Check the status of an external device that is connected to the V2 (for example system armed or disarmed)

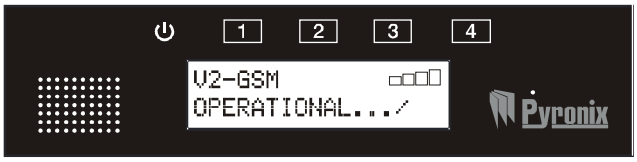
The remote output activation facility can be used to control external devices such as lighting, heating, electronic gates and air conditioning etc.

CHAPTER 3: POWERING UP / ENGINEERS MENU

When the V2 GSM powers-up, a check is made to determine if the unit is capable of entering operational mode, this checks that there is a valid sim card present and that there is a suitable signal. Once the initialisation period has ended, the display will then show 'V2 GSM Operational…' along with the current signal strength on the top line of the display.

When the V2 GSM is powered up, the version number will be displayed for a second, and then it will start initialising.

The signal strength will then be represented by signal bars in right hand corner.



3.1 ENTERING THE ENGINEERS MODE

On the keypad, enter the engineer's code (default 9999).

'Enter code' will be shown on the display.

"[100] PLAY/REC SYSTEM MESSAGES" will be displayed

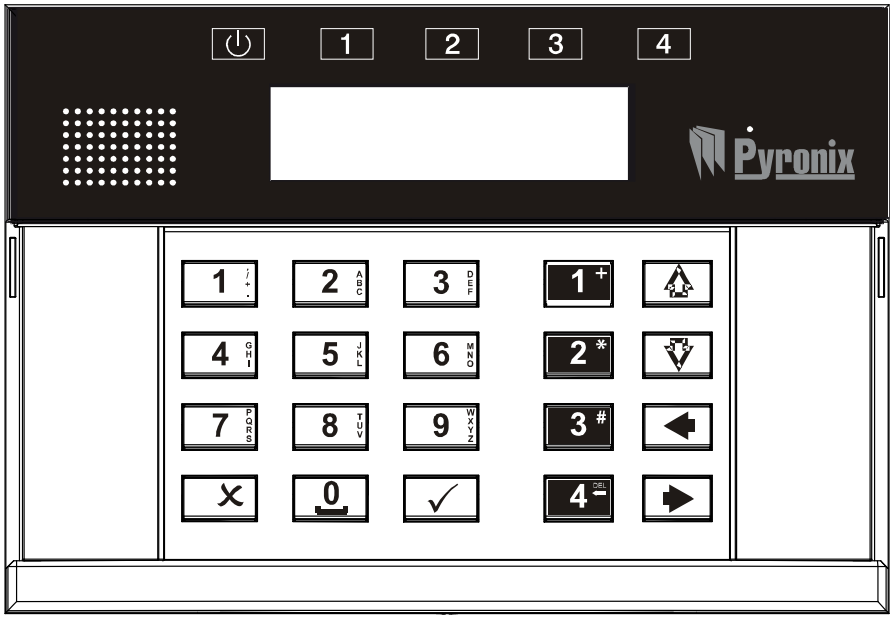
Use the ◄ and ► keys to scroll through the menus.

3.2 EXITING THE ENGINEERS MODE

To exit the engineer's menu, type in '999' or scroll to '[999] QUIT/EXIT PROGRAMMING'

Press the ✓ key

CHAPTER 4: OPERATING THE KEYPAD



The V2 GSM keypad incorporates 4 status LEDs positioned above the LCD display. They are numbered 1 to 4 and are used to show the status of the 4 inbuilt outputs.

4.1 SCROLLING THROUGH MENUS

Once in the User or Engineer menu (see page 8), the main menus are scrolled through using the ◄ and ► keys.

	Press ►	
Main menu functions are displayed in capital letters	To scroll to the next main menu function	The next main menu function will be displayed. To go further press ►, or to go back press ◄

To enter a main menu function, press ✓ or ▽

Once in a main menu function, use the △ and ▽ keys to scroll through the sub-menu.

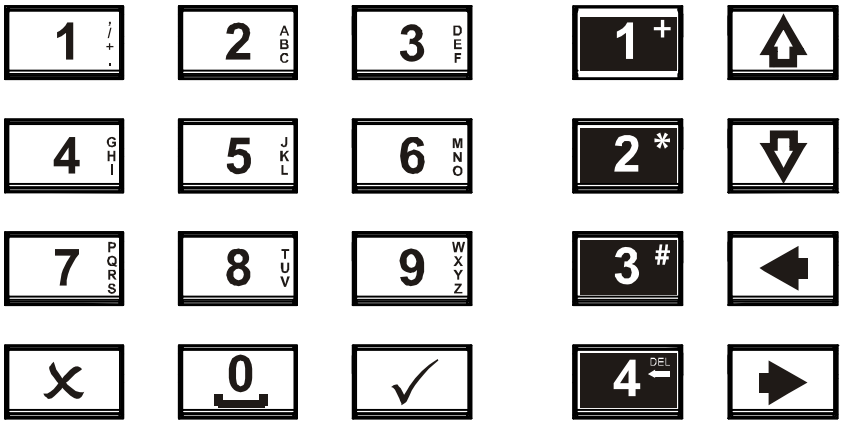
	Press ▽	
Sub-menu function are displayed in lower case letter	To scroll to the next sub-menu function	The next sub-menu function will be displayed. To go further press, or ▽ to go back press △

To enter a sub-menu function, press ✓

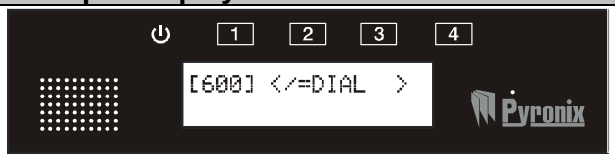
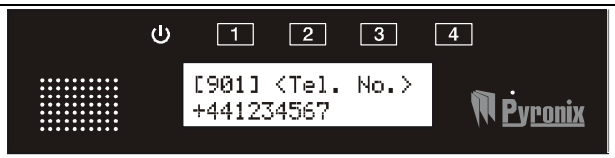
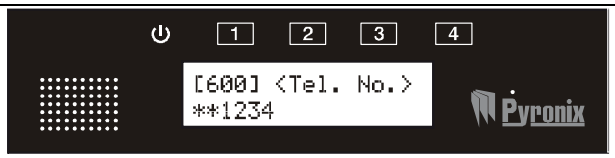
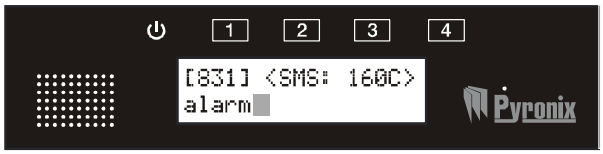
Press ✗ to exit a sub-menu, and to go back to the main menu functions,

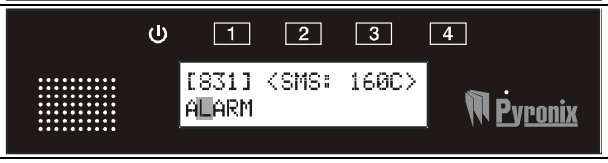
Press ✗ again until a main menu function (in capital letters) is displayed.

4.2 ENTERING TEXT



The numeric keys above are used to enter the text onto the V2GSM (for SMS texts).
For example to enter the letter 'Q'. The 7 key needs to be entered twice. The 0 key is used to enter a space.

Keys	Operation	Example Display
✓	Enters a function / starts a command	
✗	Exits a function / stops a command	
1 +	Activates output 1 Enters a '+' symbol before a telephone number if required.	
2 *	Activates output 2 Enters a '*' symbol when dialling a number if required.	
3 #	Activates output 3 Alternates between capitals and lower case Enters a '#' symbol when dialling a number if required.	
4 ←	Activates output 4 Deletes the current character / number that the cursor is on	

△	Scrolls between sub-menu items Moves the character cursor to the end of a string	
▽	Scrolls between sub-menu items Moves the character cursor to the beginning of a string	
◀	Scrolls between main-menu items Moves the character cursor to the left	
▶	Scrolls between main-menu items Moves the character cursor to the right	

CHAPTER 5: V2 GSM PROGRAMMING

5.1 PLAY / RECORD SYSTEM MESSAGES [100]:

Messages can be recorded for all system messages on the V2 GSM:

Low battery message = If the GSM voltage supply equipment battery drops below 11.5V a low battery message will be sent to the programmed telephone number (if enabled)

Battery restore message = Once the battery has been reconnected/recharged a message will be sent to the programmed telephone number (if enabled)

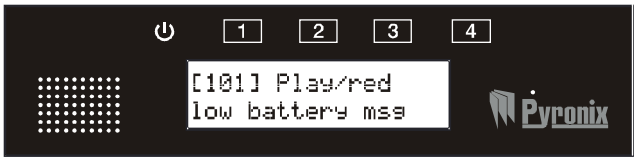
Test Message = A test call/SMS text can be sent over a programmed period (if enabled) (function 175 page 15).

A recoding may be up to 12 seconds long.

Default = All system messages are disabled.

Press the ◄ or ► keys to scroll to 'PLAY/REC SYSTEM MESSAGES' or enter '100'.

Press ▼ to enter the function to enter the sub-menus. Press the ✓ key to enter a sub-menu.



5.1.1 Play / Record Low Battery Message [101]

Press the ✓ key to play/record low battery messages

See Section 5.1.4 On how to play/record/delete messages.

5.1.2 Play / Record Battery Restore Message [102]

Press the ✓ key to play/record battery restore messages

See Section 5.1.4 On how to play/record/delete messages.

5.1.3 Play / Record Test Message [103]

Press the ✓ key to play/record test messages

See Section 5.1.4 On how to play/record/delete messages.

5.1.4 Playing / Recording / Deleting Messages (101,102,103)

Press:

1 = To play a message

4 = To record, 9 = To delete

1 - PLAY

To play an existing message, press 1 .Press X to stop.

(If no recording exists, 'no recording' will be displayed.)

4 - RECORD

To record a message, press 4. After 3 seconds, the message can be recorded (the microphone is situated near the Pyronix logo). The message recording can be 12 seconds long or press X to stop the recording at anytime.

9 – DELETE

To delete a message, press 9

5.1.5 SMS low battery message [131]

SMS texts can be sent out to programmed mobile phone numbers (programmed in the user menu), up to 160 characters can be entered.

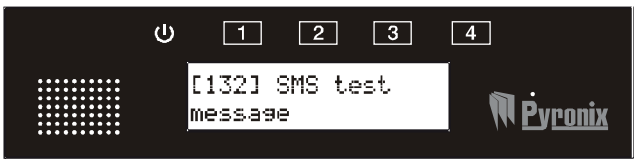
Press the ✓ key to enter a SMS low battery message.

See Section 5.1.8 On how to enter SMS messages

5.1.6 SMS test message [132]

Press the ✓ key to enter a SMS test message

See Section 5.1.8 On how to enter SMS messages



5.1.7 SMS battery restore message [133]

Press the ✓ key to enter a SMS bat. Restore message

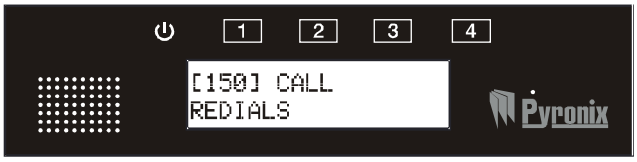
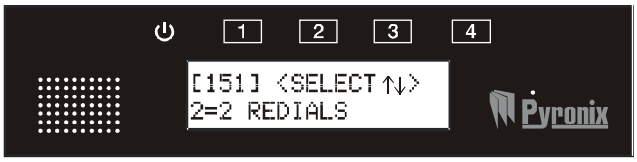
See Section 5.1.8 On how to enter SMS messages

5.1.8 Entering SMS messages

Enter the text message using the relevant keys (see page 8) for help on entering text). A maximum of 160 characters may be used. Use the ◄ and ► keys to scroll between the characters. Press 3# to change from uppercase and lowercase. Press 4- to delete characters.

5.2 CALL REDIALS [150]

If V2 calls the user and the user does not answer the call it is possible to program up to 9 redial attempts for each telephone number.

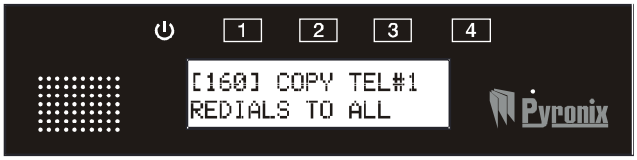
Press the ◄ or ► keys to scroll to 'CALL REDIALS' or enter '150'.	
Press ▼ to enter the function to enter the sub-menu. Press the ✓ key to enter a sub-menu.	
Press ▼ or ▲ to choose the number of redials or select the number. 0 = 0 redials 1 = 1 redial 2 = 2 redials 3 = 3 redials = **Default** 4 = 4 redials 5 = 5 redials 6 = 6 redials 7 = 7 redials 8 = 8 redials 9 = 9 redials Press ✓	

Shortcut Function Numbers:

151: Redials for tel#1	**156:** Redials for tel#6
152: Redials for tel#2	**157:** Redials for tel#7
153: Redials for tel#3	**158:** Redials for tel#8
154: Redials for tel#4	**159:** Redials for tel#9
155: Redials for tel#5	

5.3 COPY NUMBER OF REDIALS FOR TEL#1 TO ALL [160]

This function is used to copy the number of redials programmed for telephone number 1, to all 9 other telephone numbers.

Press the ◄ or ► keys to scroll to 'COPY TEL#1 REDIALS TO ALL' or enter '160'.	
Press ▼ or ▲ to choose between Yes or No or enter the number: 0 = No = **Default** 1 = Yes Press ✓	

5.4 IMMEDIATE NUMBER OF REDIALS [165]

This function enables the splitting of the number of calls made to the user if the users phone does not answer.

Example:

Program the Redials for telephone number#1 to 5 times.

Program the Immediate Number of Redials for telephone#1 to 3 times.

Program the Deferred Redial Delay Time for telephone#1 to 10 min.

In event of alarm the user phone will be called. If the user does not answer the call the V2 will call up to 3 times one after another. After that will wait for 10 min. and call another 2 times again.

To disable this function make sure the number is programmed to “9”.

Press the ◄ or ► keys to scroll to ‘IMMEDIATE NO. OF REDIALS or enter ‘165’.

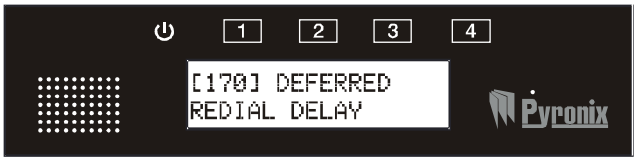
Press ▼ or ▲ to choose between the number of immediate redials or select the number:

0 = 0 redials, 1 = 1 redial
2 = 2 redials 3 = 3 redials
4 = 4 redials, 5 = 5 redials
6 = 6 redials
7 = 7 redials
8 = 8 redials
9 = 9 redials = **Default**
Press ✓

5.5 DEFERRED REDIAL DELAY [170]

This function allows a programmed voice message delay of when to redial the telephone numbers. This voice message delay may be programmed up to 1 day.

Press the ◄ or ► keys to scroll to ‘DEFERRED REDIAL DELAY’ or enter ‘170’.



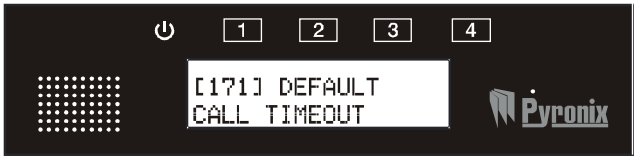
Press ▼ or ▲ to choose between the time delay or select the number:

0 = 5 minutes = **Default,**
1 = 10 minutes, 2 = 30 minutes
3 = 1 hour, 4 = 3 hours
5 = 6 hours, 6 = 1 day
Press ✓

5.6 DEFAULT CALL TIMEOUT [171]

See IMMEDIATE NUMBER OF REDIALS [165]

Press the ◄ or ► keys to scroll to 'DEFAULT CALL TIMEOUT' or enter '171'.



Press ▼ or ▲ to choose between the call timeout or select the number:

0 = 30 seconds = **Default**

1 = 60 seconds, 2 = 120 seconds

3 = 180 seconds

Press ✓

5.7 CALLING STRATEGY [172]

SEQUENTIAL = The V2 GSM will dial in sequence all numbers programmed for as many times as number of redials have been programmed for this number.

REPEAT CALLS = The V2 will call the same telephone number as many times as the number of redials programmed for this phone number before dialling the next number.

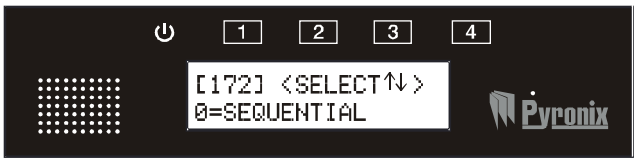
Press the ◄ or ► keys to scroll to 'CALLING STRATEGY' or enter '172'.

Press ▼ or ▲ to choose between Sequential or Repeat Calls or select the number:

0 = Sequential = **Default**

1 = Repeat calls

Press ✓



5.8 DIAL ALL NUMBERS [173]

If this function is enabled, all numbers programmed on each individual input will be dialled.

Press the ◄ or ► keys to scroll to 'DIAL ALL NUMBERS' or enter '173'.

Press ▼ or ▲ to choose between Yes or No or select the number:

0 = No = **Default**

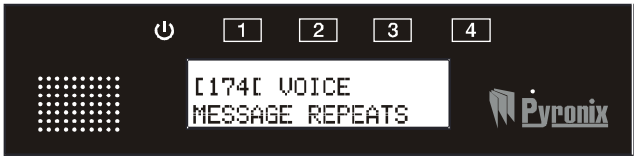
1 = Yes

Press ✓

5.9 VOICE MESSAGE REPEATS [174]

Voice messages can be repeated up to 9 times during a call if required.

Press the ◄ or ► keys to scroll to 'VOICE MESSAGE REPEATS' or enter '174'.



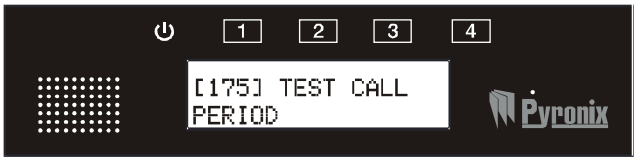
Press ▼ or ▲ to choose the number of repeats or select the number:

0 = 0 times, 1 = 1 time
2 = 2 times
3 = 3 times = **Default**
4 = 4 times, 5 = 5 times
6 = 6 times, 7 = 7 times
8 = 8 times, 9 = 9 times
Press ✓

5.10 TEST CALL PERIOD [175]

A test call will only be sent if there is a voice message or SMS programmed in the system (functions 103 and 122). The test call may be programmed daily, weekly, every 2 weeks or every 4 weeks.

Press the ◄ or ► keys to scroll to 'TEST CALL PERIOD' or enter '175'.



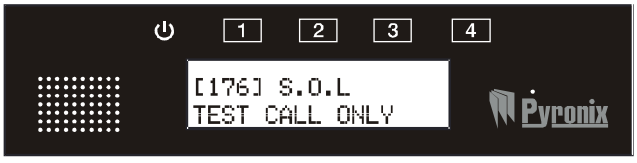
Press ▼ or ▲ to choose the test call period or select the number:

0 = Daily
1 = Weekly
2 = Every 2 weeks = **Default**
3 = Every 4 weeks. Press ✓

5.11 S.O.L. TEST CALL ONLY [176]

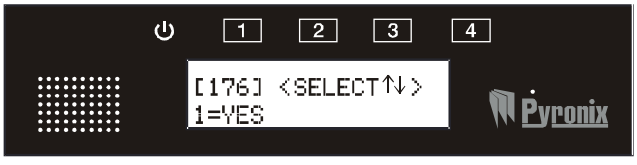
A sign of life (SOL) test call will only be sent if no input activations have occurred during the SOL test call period.

Press the ◄ or ► keys to scroll to 'S.O.L. TEST CALL ONLY' or enter '176'.



Press ▼ or ▲ to choose between Yes or No or select the number:

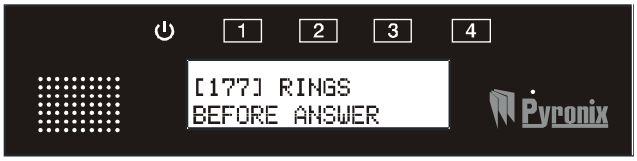
0 = No = **Defaul**t, 1 = Yes
Press ✓



5.12 RINGS BEFORE ANSWER [177]

The remote menu of the V2 GSM is accessed when the telephone number of the V2 GSM is dialled. The V2 GSM will only answer after it has recognised the programmed number of rings.

Press the ◄ or ► keys to scroll to 'RINGS BEFORE ANSWER' or enter '177'.



Press ▼ or ▲ to choose the number of rings or select the number:

0 = Disabled,
1 = 1 Ring
2 = 2 Rings,
3 = 3 Rings = **Default**
4 = 4 Rings,
5 = 5 Rings
6 = 6 Rings,
7 = 7 Rings
8 = 8 Rings,
9 = 9 Rings
Press ✓

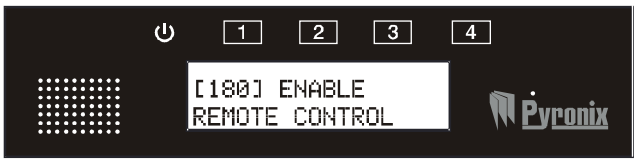
5.13 ENABLE REMOTE CONTROL [180]

If this function is enabled the 'remote control' menu is going to be accessible for a user.

The user can either access this by either dialling into the V2 GSM or pressing the '99' when a call is made and acknowledged by the user. For more info on this refer to the user manual.

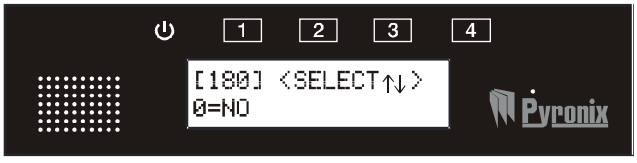
The remote control menu allows a user to listen in and talk into the property via the onboard speaker/microphone, or listen in/talk into the property via a remote speaker/microphone or control all outputs on the V2 GSM.

Press the ◄ or ► keys to scroll to 'ENABLE REMOTE CONTROL' or enter '180'.



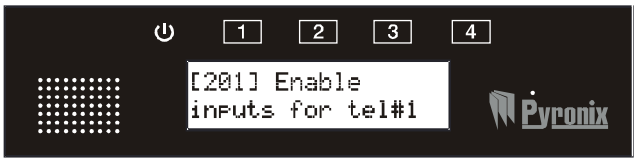
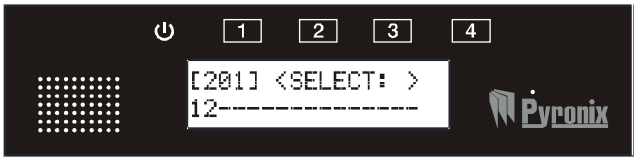
Press ▼ or ▲ to choose between Yes or No or select the number:

0 = No, 1 = Yes = **Default**
Press ✓



5.14 TELEPHONE NUMBER INPUT ALLOCATION [200]

This function is used to allocate the inputs for each telephone number, so when an input (or inputs) on the V2 GSM system activates, it will dial the programmed telephone number.

Press the ◄ or ► keys to scroll to 'TEL NUMBER INPUT ALLOCATION' or enter '200'.	
Press ▼ or ▲ to choose the telephone number enter the function shortcut number (see below). Press ✓	
Enter the individual inputs that, when activated will dial telephone number **Default = no allocations** See below for the input mapping.	

Shortcut function numbers:

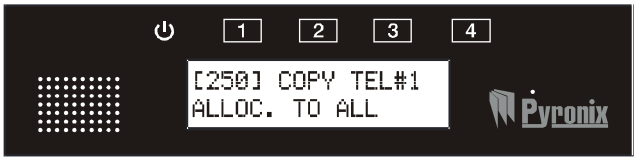
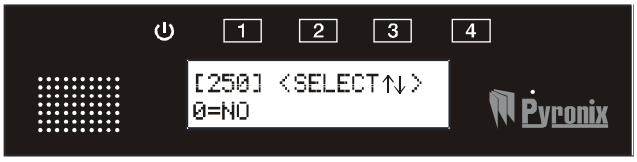
201: Enables inputs for tel #1	**206:** Enables inputs for tel #6
202: Enables inputs for tel #2	**207:** Enables inputs for tel #7
203: Enables inputs for tel #3	**208:** Enables inputs for tel #8
204: Enables inputs for tel #4	**209:** Enables inputs for tel #9
205: Enables inputs for tel #5	

The inputs are selected by most of the keypad keys – the mapping is shown below:

Keys	Inputs	Display	Keys	Inputs	Display
1	Keypad Input 1	1	9	RIX Input Z3	9
2	Keypad Input 2	2	0	RIX Input Z4	0
3	Keypad Input 3	3	1+	RIX Input Z5	A
4	Keypad Input 4	4	2*	RIX Input Z6	B
5	Keypad Input 5	5	3#	RIX Input Z7	C
6	Keypad Input 6	6	4-	RIX Input Z8	D
7	RIX input Z1	7	◄	Low Battery Report	L
8	RIX Input Z2	8	►	Test Reporting	T

5.15 COPY TEL#1 ALLOCATION TO ALL [250]

It is possible to copy all telephone number 1 input allocations to all the rest of the telephone numbers by selecting function 250.

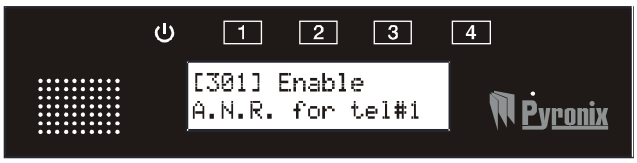
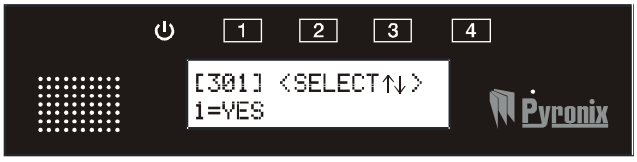
Press the ◄ or ► keys to scroll to 'COPY TEL#1 ALLOC/ TO ALL' or enter '250'.	
Press ▼ or ▲ to choose between Yes or No or select the number: 0 = No = **Default**, 1 = Yes Press ✓	

5.16 ENABLE A.N.R. FOR TEL# [300]

Answer Number Recognition (A.N.R.) is used in conjunction with the output type 'ANR Pulse' (function 660) to activate remotely outputs without having to wait for the V2GSM to take the phone line.

For example:

If telephone number#1 is enabled for A.N.R. and if an output#1 is programmed as 'A.N.R. pulse', then when that telephone number is recognised by dialling in and hanging up after one ring, the output#1 will pulse without the V2GSM taking the phone line.

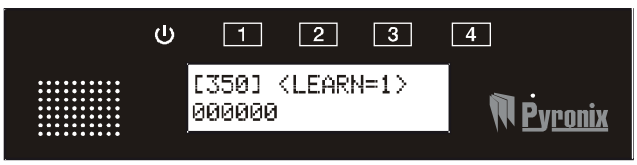
Press the ◄ or ► keys to scroll to 'ENABLE A.N.R. for TEL#' or enter '300'.	
Press ▼ or ▲ to choose the telephone number enter the function shortcut number (see below). Press ✓	
Press ▼ or ▲ to choose between Yes or No or select the number: 0 = No = **Default** 1 = Yes Press ✓	

Shortcut function numbers:

301: Enables A.N.R. inputs for tel #1	**306:** Enables A.N.R. inputs for tel #6
302: Enables A.N.R. inputs for tel #2	**307:** Enables A.N.R. inputs for tel #7
303: Enables A.N.R. inputs for tel #3	**308:** Enables A.N.R. inputs for tel #8
304: Enables A.N.R. inputs for tel #4	**309:** Enables A.N.R. inputs for tel #9
305: Enables A.N.R. inputs for tel #5	

5.17 AUTO LEARN INPUT STATUS [350]

The V2 GSM system incorporates the facility to automatically learn the normal (not alarm) status of each input on the system (both onboard the V2 GSM and the RIX inputs).

Press the ◄ or ► keys to scroll to 'AUTO LEARN INPUT STATUS' or enter '350'.	
The display will show the status of each input on the keypad (6 inputs) Press ✓	

5.18 PROGRAM INPUT STATUS [400]

Each of the 6 inputs onboard the V2 GSM can be programmed to be either normally open, normally high, normally low or a voltage trigger.

Press the ◄ or ► keys to scroll to 'PROGRAM INPUT STATUS' or enter '400'.	
Press ▼ or ▲ to choose the input number or enter the function shortcut number (see below). Press ✓	
Press ▼ or ▲ to choose between the input status, or select the number: 0 = Disabled 1 = Normally Open = **Default** 2 = Normally Low 3 = Normally High 4 = Voltage Trigger Press ✓	

Shortcut function numbers:

ONBOARD INPUTS
401: Program status for inp#1
402: Program status for inp#2
403: Program status for inp#3
404: Program status for inp#4
405: Program status for inp#5
406: Program status for inp#6
INPUTS ON THE INPUT EXPANDER
407: Program EXP. input#7
408: Program EXP. input#8
409: Program EXP. input#9
410: Program EXP. input#10
411: Program EXP. input#11
412: Program EXP. input#12
413: Program EXP. input#13
414: Program EXP. input#14

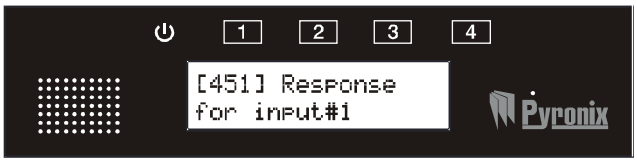
5.19 INPUT RESPONSE TIME [450]

This is the response time it will take for an input to activate (can only be programmed for the V2 GSM onboard inputs only, function not available for the RIX inputs).

Press the ◄ or ► keys to scroll to 'INPUT RESPONSE TIME' or enter '450'.

Press ▼ or ▲ to choose the input number or enter the function shortcut number (see below).

Press ✓



Press ▼ or ▲ to choose the response time or select the number:

0 = 300ms = **Default**
1 = 5 seconds, 2 = 30 seconds
3 = 60 seconds, 4 = 3 hours
5 = 6 hours, 6 = 12 hours
7 = 24 hours, 8 = 1 week
9 = 2 weeks,Press ✓

Shortcut Function Numbers:

451: Response for input#1	**454:** Response for input#4
452: Response for input#2	**455:** Response for input#5
453: Response for input#3	**456:** Response for input#6

5.20 INPUT TRIGGER VOLTAGE [500]

This function sets the trigger voltage for each individual input (the V2 GSM onboard inputs only, function not available for the RIX inputs).

Press the ◄ or ► keys to scroll to 'INPUT TRIGGER VOLTAGE' or enter '500'.

Press ▼ or ▲ to choose the input number or enter the function shortcut number (see below).

Press ✓

Press ▼ or ▲ to choose the trigger voltage. The choices range from 0V and then increases in 0.5V to 15V.

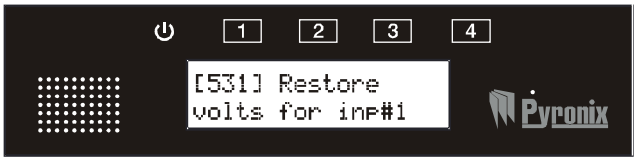
Press ✓

Shortcut Function Number:

501: Trigger volts for inp#1	**504:** Trigger volts for inp#4
502: Trigger volts for inp#2	**505:** Trigger volts for inp#5
503: Trigger volts for inp#3	**506:** Trigger volts for inp#6

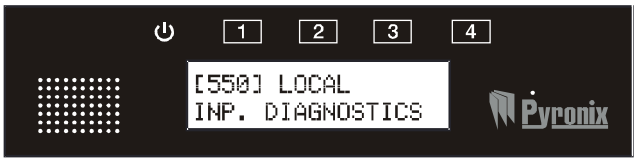
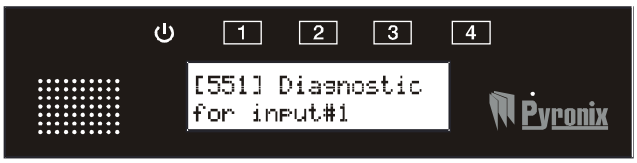
5.21 INPUT RESTORE VOLTAGE [530]

This function sets the restore voltage for each individual input (the V2 GSM onboard inputs only, function not available the RIX inputs).

Press the ◄ or ► keys to scroll to 'INPUT RESTORE VOLTAGE' or enter '530'.	
Press ▼ or ▲ to choose the input number or enter the function shortcut number (see below). Press ✓	
Press ▼ or ▲ to choose the restore voltage. The choices range from 0V and then increases in 0.5V to 15V. Press ✓	

5.22 LOCAL INPUT DIAGNOSTICS [550]

This displays the status of the 6 inputs onboard the V2 GSM.

Press the ◄ or ► keys to scroll to 'LOCAL INP. DIAGNOSTICS' or enter '550'.	
Press ▼ or ▲ to choose the input number or enter the function shortcut number (see below). Press ✓	
The display shows the voltage of the current status of the input. Press ✓	

Shortcut Function Numbers:

551: Diagnostic for input#1
552: Diagnostic for input#2
553: Diagnostic for input#3
554: Diagnostic for input#4
555: Diagnostic for input#5
556: Diagnostic for input#6

5.23 ENABLE ABORT INPUT#6 [580]

This function enables the abort option which can be used on Input 6 of the V2 GSM. If this input is activated, all dialling sequences will be aborted.

Press the ◄ or ► keys to scroll to 'ENABLE ABORT INPUT # 6' or enter '580'.

Press ▼ or ▲ to choose between Yes or No or select the number:

0 = No

1 = Yes = **Default**

Press ✓

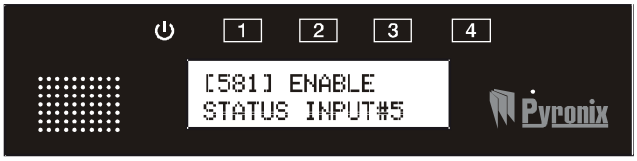
5.24 ENABLE STATUS INPUT #5 [581]

This function enables input 5 to be able to determine the status of an external device which is connected to the V2GSM (for example an intruder alarm control panel). If enabled input 5 will detect the status changes.

Example:

Arming or disarming of the control panel but no messages will be sent to the user. To check the status the user needs to call the V2GSM and via the voice menu interrogate the input (for example if used with an alarm panel the user will be given the information ARMED or DISARMED).

Press the ◄ or ► keys to scroll to 'ENABLE STATUS INPUT # 5' or enter '580'.

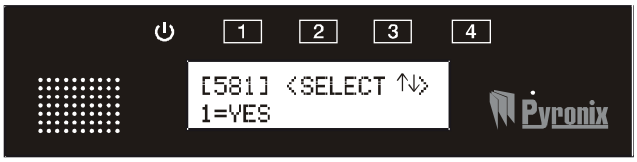


Press ▼ or ▲ to choose between Yes or No or select the number:

0 = No

1 = Yes = **Default**

Press ✓



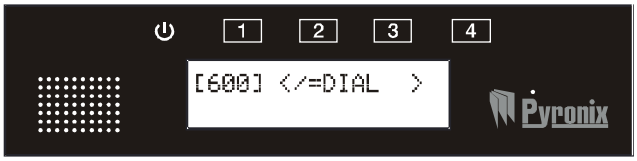
5.25 CALL TELEPHONE NUMBER [600]

This function is used to call any telephone number if required.

Press the ◄ or ► keys to scroll to 'CALL TELEPHONE NUMBER' or enter '600'.

Enter the telephone number to dial and press ✓. Press ✗ to end the call.

(for certain dialling sequences, a '*' or a '#' symbol may need to be used (enter 2* or 3#)

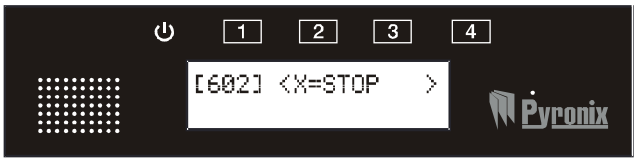


5.26 SET SIM-CARD SECRET PIN [601]

Press the ◄ or ► keys to scroll to 'SET SIM CARD SECRET PIN' or enter '601'.	
Enter the new pin, or to delete press the 4 key. Press ✓.	

5.27 TEST LISTEN IN MICROPHONE [602]

This tests the remote microphone if one is connected to the V2 GSM.

Press the ◄ or ► keys to scroll to 'TEST LISTEN-IN MIC' or enter '602'.	
The V2 GSM is now testing the Microphone. Press X to stop the test.	

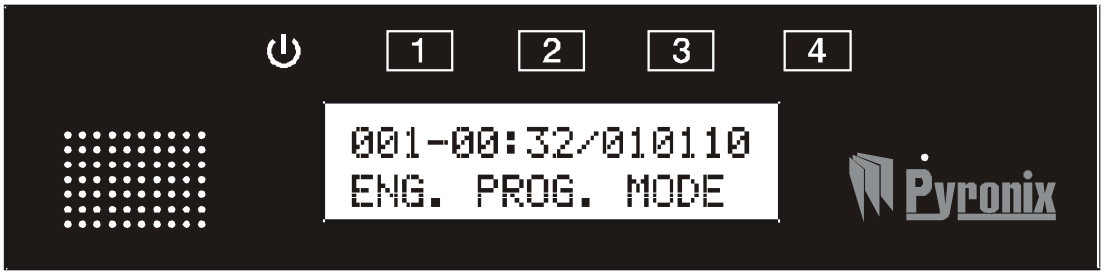
5.28 TEST REMOTE SPEAKER [603]

This tests the remote speaker if one is connected to the V2 GSM.

Press the ◄ or ► keys to scroll to 'TEST REMOTE SPEAKER' or enter '603'.	
The V2 GSM is now testing the remote speaker. X to stop the test.	

5.29 VIEW EVENT LOG [604]

All events that occur are recorded in the event log.
The V2 GSM display will show all information in order, starting at the most recent event.



The above display shows the following:

001 = Event number (up to 256, time and date)

00:32 = Time

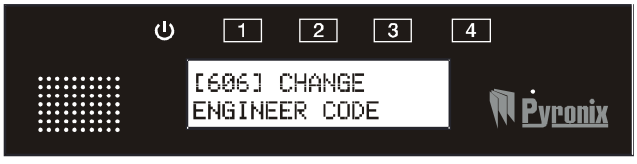
010110 = Date (DD:MM:YY)

Press the ◄ or ► keys to scroll to 'VIEW EVENT LOG' or enter '604'.	
Press ▼ or ▲ to scroll back and forth through the log. Press the ► key to jump to the last event. Press ✓ to exit.	

5.30 ERASE EVENT LOG [605]

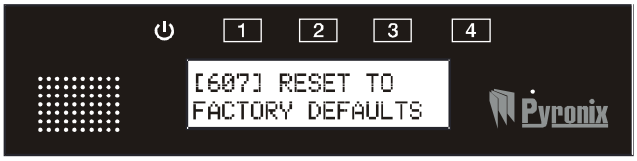
Press the ◄ or ► keys to scroll to 'ERASE EVENT LOG' or enter '605'.	
Press ▼ or ▲ to select 'Yes' and the press ✓ to erase all the log.	

5.31 CHANGE ENGINEER CODE [606]

Press the ◄ or ► keys to scroll to 'CHANGE ENGINEER CODE' or enter '606'.	
Enter the new engineer code and press ✓. **Default Engineer Code = 9999**	

5.32 RESET TO FACTORY DEFAULTS [607]

Press the ◄ or ► keys to scroll to 'RESET TO FACTORY DEFAULTS' or enter '607'.

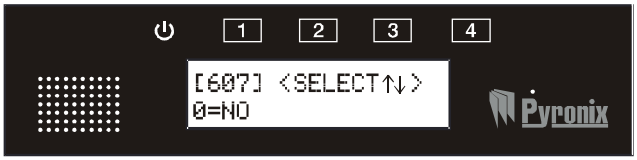


Press ▼ or ▲ to choose between Yes or No or select the number:

0 = No = **Default**

1 = Yes

Press ✓

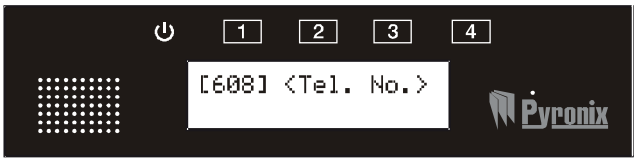


5.33 SIM TELEPHONE NUMBER [608]

Press the ◄ or ► keys to scroll to 'SIM TELEPHONE NUMBER' or enter '608'.

NOTE: This is used to enable the V2 time and date

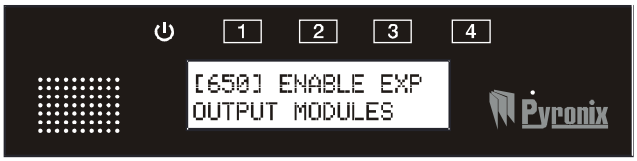
Enter the sim telephone number, press ✓.



5.34 ENABLE EXPANDER OUTPUT MODULES [650]

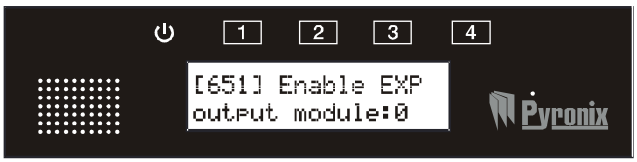
Up to 3 output modules (ROX, 16 relay outputs) can be installed on the V2 GSM. Each ROX that is connected need to be enabled in this function.

Press the ◄ or ► keys to scroll to 'ENABLE EXP OUTPUT MODULES' or enter '650'.



Press ▼ or ▲ to select the output module that is to be enabled or enter the function shortcut number (see below).

Press ✓



Press ▼ or ▲ to choose between Yes or No or select the number:

0 = No = **Default**

1 = Yes

Press ✓

Shortcut Function Numbers:

651: Enable EXP output module:0	**653:** Enable EXP output module:2
652: Enable EXP output module:1	

5.35 PGM OUTPUT FUNCTIONS [660]

The 4 onboard outputs can be programmed for either:

Keypad/Remote: These will enable the user to trigger outputs 1-4 by pressing for 2sec the dedicated keys 1 to 4.

Keypad/Remote Pulsed: These will enable the user to trigger outputs 1-4 by pressing for 2sec the dedicated keys 1 to 4, or to activate them remotely by calling the V2 and using the user voice menu.

The time of the pulse is programmable in option 680, PGM Output Timers.

Follow Input: Used in conjunction with 'PGM output timers' (Function 680), the output will activate when a chosen input is activated.

Follow GSM Fault: Output activates when there is a GSM fault on the system.

Follow Low Battery: Output activates when there is 11.5v low battery detection on the system.

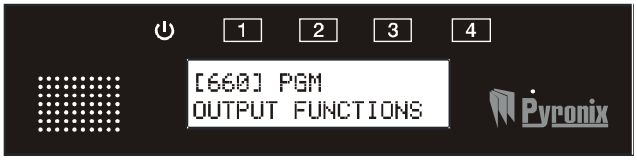
Follow Expander Tamper: Output activates if there is an expander tamper activated either on the remote input expander or the remote output expander.

Acknowledge Pulse: Output pulses for 1 sec when an acknowledgement is received after an alarm call to the user.

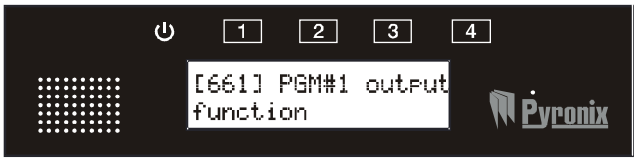
No Call Acknowledge: Output activates when no acknowledgement is received after an alarm call to the user.

A.N.R. Pulse: Output activates for 1 sec when the V2 GSM recognises a telephone number being dialled without V2 answering the call.

Press the ◄ or ► keys to scroll to 'PGM OUTPUT FUNCTIONS' or enter '660'.



Press ▼ or ▲ to select the output number enter the function shortcut number (see below).. Press ✓



Press ▼ or ▲ to choose between the options or select the number:

0 = Disabled
1 = Keypad/remote = **Default**
2 = KPD/REM pulsed
3 = Follow input
4 = Follow GSM Fault
5 = Follow low battery
6 = Follow exp. tamper
7 = Ack. pulse
8 = No call acknowledgement
9 = A N R pulse
Press ✓

Shortcut Function Numbers:

661: PGM#1 output function	**662:** PGM#3 output function
662: PGM#2 output function	**662:** PGM#4 output function

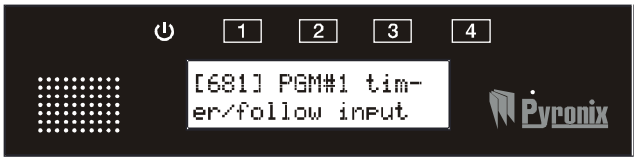
5.36 PGM OUTPUT TIMERS [680]

This function is used in conjunction with function 660 and any outputs that are programmed as either 'follow input' or a pulsed output.

Press the ◄ or ► keys to scroll to 'PGM OUTPUT TIMERS' or enter '680'.

Press ▼ or ▲ to select the PGM number enter the function shortcut number (see below).

Press ✓

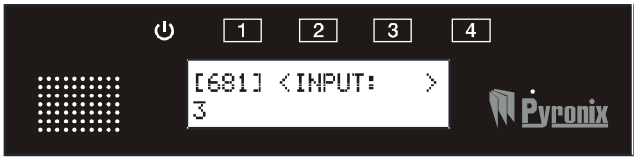


Use the ▼ or ▲ to select the Input number or the output timer.

Inputs: 1-14 (default 1)

Output timer:

0 = Disabled = **Default**
1 = 5 seconds
2 = 15 seconds
3 = 60 seconds
4 = 1 hour
5 = 3 hours
6 = 12 hours
7 = 24 hours
8 = 1 week
9 = 2 weeks
press ✓

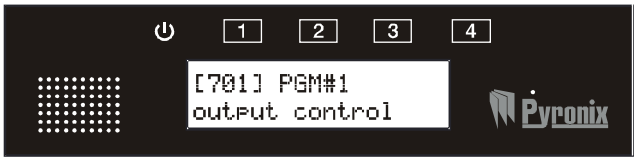


Shortcut Function Numbers:

681: PGM#1 timer/follow input	**683:** PGM#3 timer/follow input
682: PGM#2 timer/follow input	**684:** PGM#4 timer/follow input

5.37 OUTPUT CONTROL [700]

This function is used to activate any output on the V2 GSM, whether that is the 4 on board, or any of the remote outputs on the expanders.

Press the ◄ or ► keys to scroll to 'OUTPUT CONTROL' or enter '700'.	
Press ▼ or ▲ to select the PGM number (up to 52) Press ✓	
Press ▼ or ▲ to turn the output on or off or select the number: 0 = Output off = Default 1 = Output On Press ✓	

Shortcut Function Numbers:

701: PGM#1 output control	**773:** PGM#23 EXP output control
702: PGM#2 output control	**774:** PGM#24 EXP output control
703: PGM#3 output control	**775:** PGM#25 EXP output control
704: PGM#4 output control	**776:** PGM#26 EXP output control
ADDRESS 0	**777:** PGM#27 EXP output control
751: PGM#1 EXP output control	**778:** PGM#28 EXP output control
752: PGM#2 EXP output control	**779:** PGM#29 EXP output control
753: PGM#3 EXP output control	**780:** PGM#30 EXP output control
754: PGM#4 EXP output control	**781:** PGM#31 EXP output control
755: PGM#5 EXP output control	**782:** PGM#32 EXP output control
756: PGM#6 EXP output control	**ADDRESS 2**
757: PGM#7 EXP output control	**783:** PGM#33 EXP output control
758: PGM#8 EXP output control	**784:** PGM#34 EXP output control
759: PGM#9 EXP output control	**785:** PGM#35 EXP output control
760: PGM#10 EXP output control	**786:** PGM#36 EXP output control
761: PGM#11 EXP output control	**787:** PGM#37 EXP output control
762: PGM#12 EXP output control	**788:** PGM#38 EXP output control
763: PGM#13 EXP output control	**789:** PGM#39 EXP output control
764: PGM#14 EXP output control	**790:** PGM#40 EXP output control
765: PGM#15 EXP output control	**791:** PGM#41 EXP output control
766: PGM#16 EXP output control	**792:** PGM#42 EXP output control
ADDRESS 1	**793:** PGM#43 EXP output control
767: PGM#17 EXP output control	**794:** PGM#44 EXP output control
768: PGM#18 EXP output control	**795:** PGM#45 EXP output control
769: PGM#19 EXP output control	**796:** PGM#46 EXP output control
770: PGM#20 EXP output control	**797:** PGM#47 EXP output control
771: PGM#21 EXP output control	**798:** PGM#48 EXP output control
772: PGM#22 EXP output control	

CHAPTER 6: USER MENU PROMPTS

The V2 GSM is pre-programmed with default prompts for the user menu (this is when a user will receive a phone call from the V2 GSM or dials in directly to the V2 GSM – if 'remote control' is enabled). Each prompt can be changed by a 'hidden' menu that is only accessible via the function numbers (not via scrolling through the engineer menu)

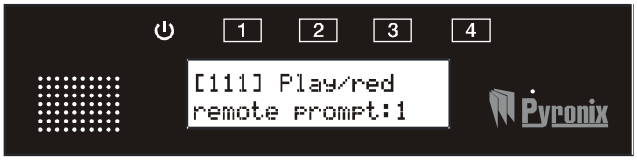
IMPORTANT: IF NEW MESSAGES ARE RECORDED, THE DEFAULT RECORDINGS WILL BE ERASED PERMANENTLY.

6.1 USER MENU PROMPTS

6.1.1 Play/Record Remote Prompt: 1 [111]

"Enter your user code."

To change the above message, enter '111' press ✓



1 = To play a message

4 = To record

9 = To delete

The message can only be 5 seconds

6.1.2 Play/Record Remote Prompt: 2 [112]

"Enter your command number or press nine for help."

To change the above message, enter '112'

Press ✓

1 = To play a message

4 = To record

9 = To delete

The message can only be 5 seconds

6.1.3 Play/Record Remote Prompt: 3 [113]

"Press one to listen, Two to talk and listen, Three to control output, Four for system status, or press Zero to hang up"

To change the above message, enter '113'

Press ✓

1 = To play a message

4 = To record

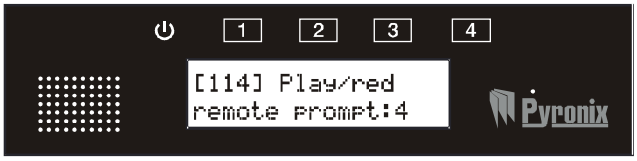
9 = To delete

The message can only be 10 seconds

6.1.4 Play/Record Remote Prompt: 4 [114]

"Enter the output number"

To change the above message, enter '114' press ✓



1 = To play a message

4 = To record

9 = To delete

The message can only be 5 seconds

6.1.5 Play/Record Remote Prompt: 5 [115]

"Press one to turn on, zero to turn off "

To change the above message, enter '115' press ✓

1 = To play a message

4 = To record

9 = To delete

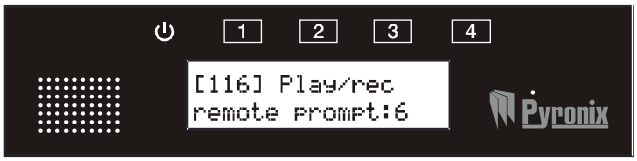
The message can only be 5 seconds

6.1.6 Play/Record Remote Prompt: 6 [116]

"Output on"

To change the above message, enter '116'

Press ✓



1 = To play a message

4 = To record

9 = To delete

The message can only be 5 seconds

6.1.7 Play/Record Remote Prompt: 7 [117]

"Output off"

To change the above message, enter '117' press ☑

1 = To play a message

4 = To record

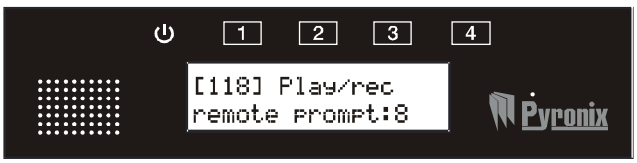
9 = To delete

The message can only be 5 seconds

6.1.8 Play/Record Remote Prompt: 8 [118]

"Goodbye"

To change the above message, enter '118' press ☑



1 = To play a message

4 = To record

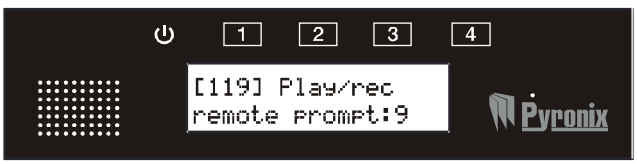
9 = To delete

The message can only be 5 seconds

6.1.9 Play/Record Remote Prompt: 9 [119]

"**Enter your call acknowledgement code now"**

To change the above message, enter '119' press ☑



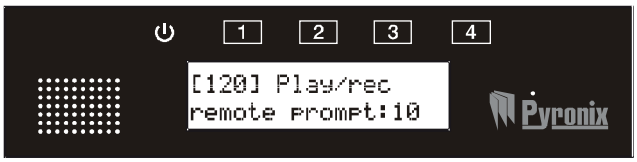
1 = To play a message

4 = To record

9 = To delete

The message can only be 5 seconds

6.1.10 Play/Record Remote Prompt: 9 [120]

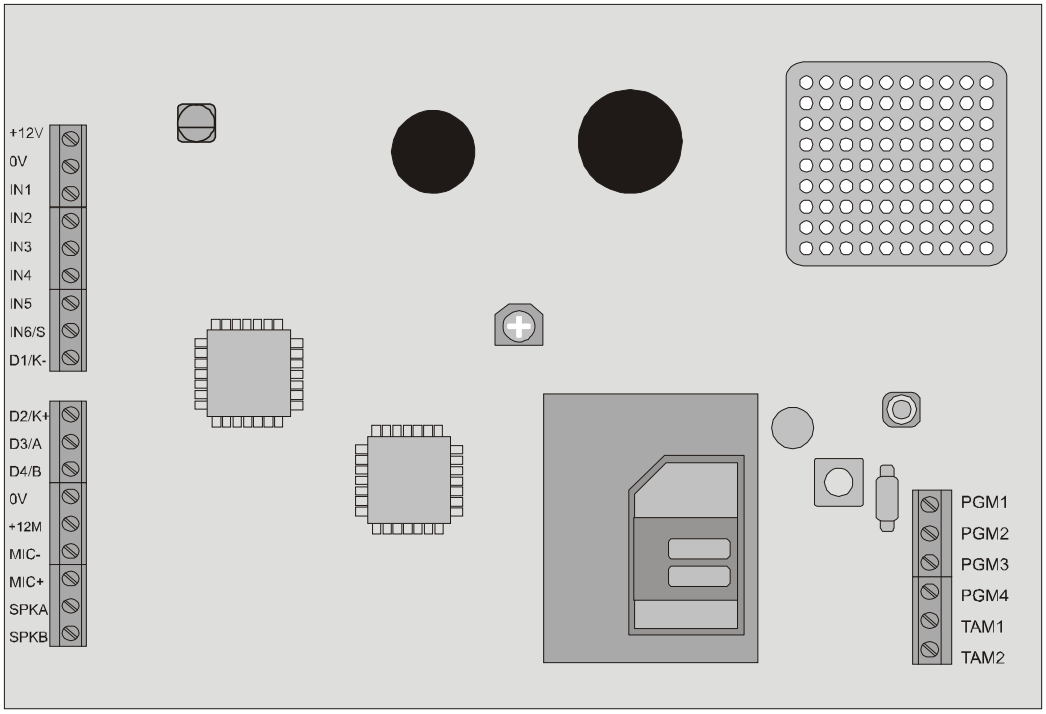
"**System Disarmed"**	
To change the above message, enter '120' press ✓	
1 = To play a message 4 = To record 9 = To delete The message can only be 5 seconds	

6.1.11 Play/Record Remote Prompt: 9 [121]

"**System Armed"**	
To change the above message, enter '121' press ✓	
1 = To play a message 4 = To record 9 = To delete The message can only be 5 seconds	

CHAPTER 7: INSTALLATION SECTION

7.1 THE V2 GSM PRINTED CIRCUIT BOARD



Terminals	***Description***	***Terminals***	***Description***
+12V	+12v Auxiliary Supply	**0V**	0V Auxiliary Supply
0V	0V Auxiliary Supply	**+12M**	Microphone Connection
IN1	Input 1	**MIC-**	0V Microphone Supply
IN2	Input 2	**MIC+**	+12V Microphone Supply
IN3	Input 3	**SPKA**	Speaker Connection
IN4	Input 4	**SPKB**	Speaker Connection
IN5	Input 5	**PGM1**	PGM 1
IN6/S	Input 6 / Abort Input	**PGM2**	PGM 2
D1/K-	0V Auxiliary Supply	**PGM3**	PGM 3
D2/K+	+12V Auxiliary Supply	**PGM4**	PGM 4
D3/A	RS485 'A' Data Bus	**TAM1**	Tamper Terminals
D4/B	RS485 'B' Data Bus	**TAM2**	

7.1.1 System Overview:

Inputs:	*Onboard*	6 inputs
	Remote (PCX-RIX8): *Max devices:*	8 inputs 1 x PCX-RIX8 (input module)
	Maximum inputs:	14 inputs
Outputs	*On board*	4 outputs
	Remote (PCX-ROX16R) *Max devices:*	16 outputs 3 x PCX-ROX16R (output module)
	Maximum outputs:	52 outputs
Speakers	*Onboard*	1 speaker
	Remote	1 x speaker max
Microphones	*Onboard*	1 microphone
	Remote	1 x microphone max

7.2 TECHNICAL SPECIFICATION

Voltage range: 10-14.9V DC

Quiescent current draw: 200mA

Maximum current draw: 300mA (average)

PGM1-4 (open-collector transistor outputs): 500mA max. each (500mA total)

Input voltage range: 0-15V DC - inputs have 39K resistor to 0V and 47K to positive supply

Input trigger thresholds: Low=0-3.9V DC, high=8-12V DC @ 12V supply

Internal speaker: 500mW

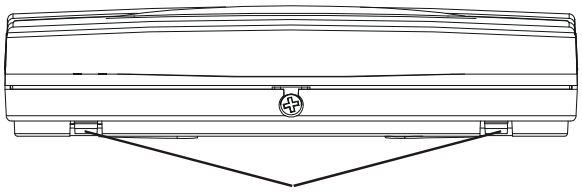
External speaker: 1W @ 16 Ohms

External microphone supply: 250mA max.

Temperature: -20 to +40'C (operational)

7.3 OPENING THE V2 GSM

- Loosen the screw on the underside of the V2 GSM.
- Insert a wide flat-head screw-driver into each of the two lugs on the underside of the V2 GSM (as shown below).

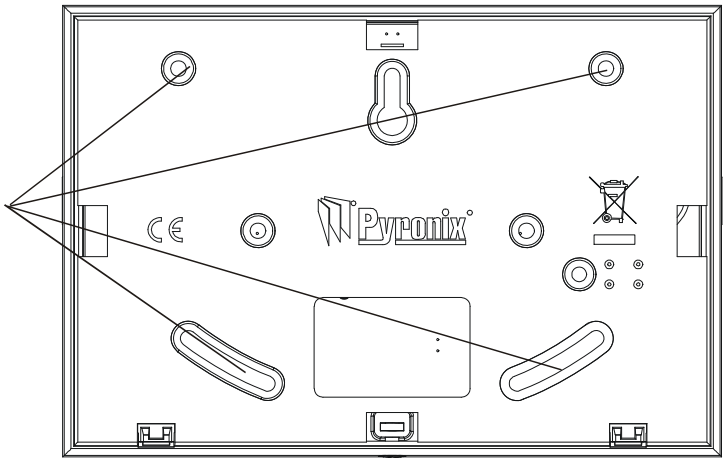


(Bottom of V2 GSM)

- Lever the screwdriver and push the lugs inwards and pull the back of the V2 GSM away from the front.

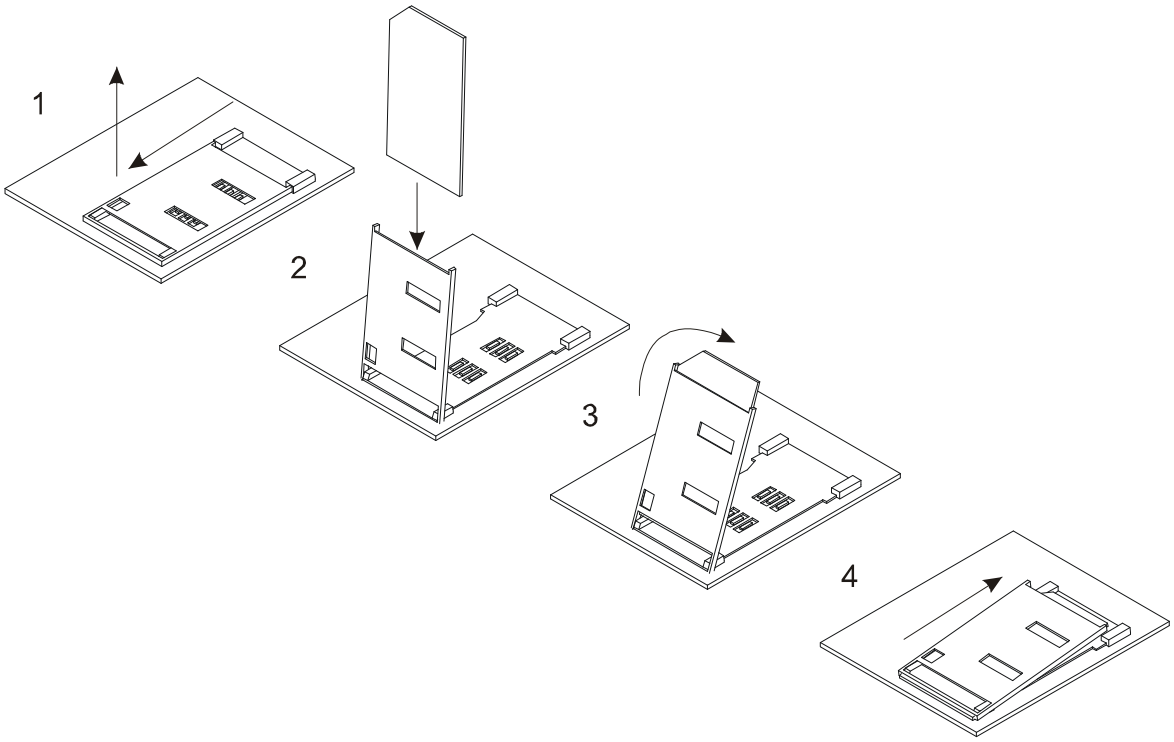
7.4 SCREW MOUNTING HOLES

Screw Holes



7.5 INSTALLING A SIM-CARD

Before the V2 GSM is operational, a sim card needs to be present. This can either be a pay as you talk sim-card, or a pay monthly one.



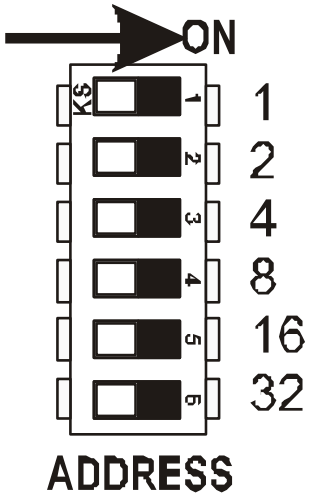
- Step 1: Slide the sim card holder down, and rotate it upwards
- Step 2: Guide the sim card down the guides of the holder till it stops
- Step 3: Rotate the holder back down to its original position
- Step 4: Push the sim card holder upwards and click in place.

7.6 WARRANTY

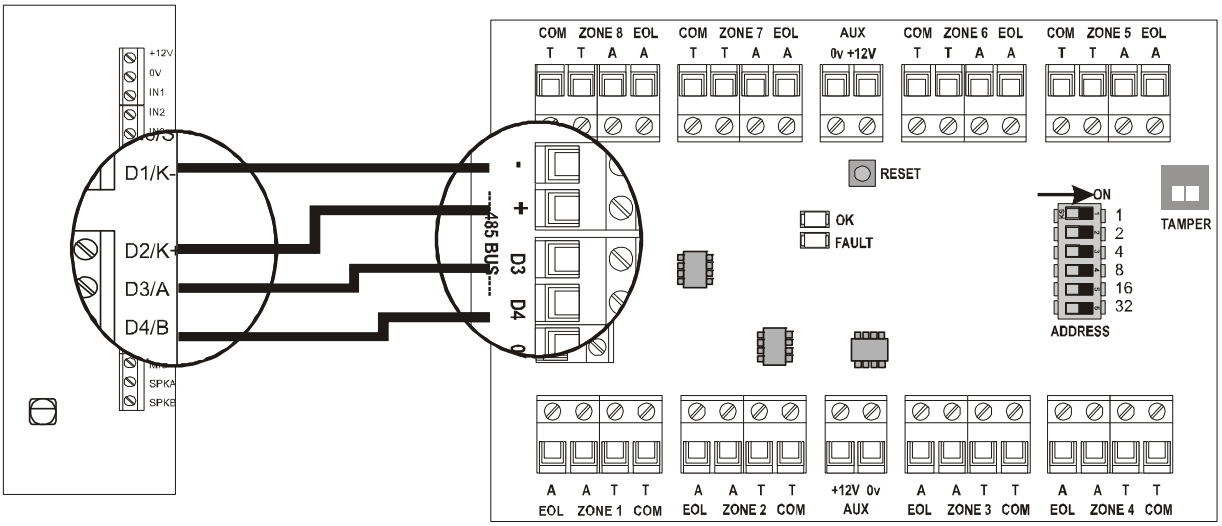
This product is sold subject to our standard warranty conditions and is warranted against defects in workmanship for a period of 2 years. In the interest of continuing improvement of quality, customer care and design, Pyronix reserves the right to amend specifications without giving prior notice

7.7 CONNECTING AN INPUT EXPANDER (PCX-RIX8)

Only 1 input expander can be connected to the V2 GSM, this will need to be addressed as '0' (all dipswitches must be to the left as shown below)

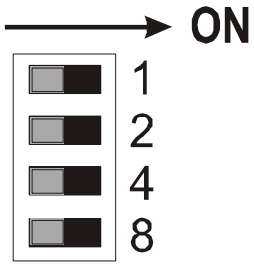


V2 GSM

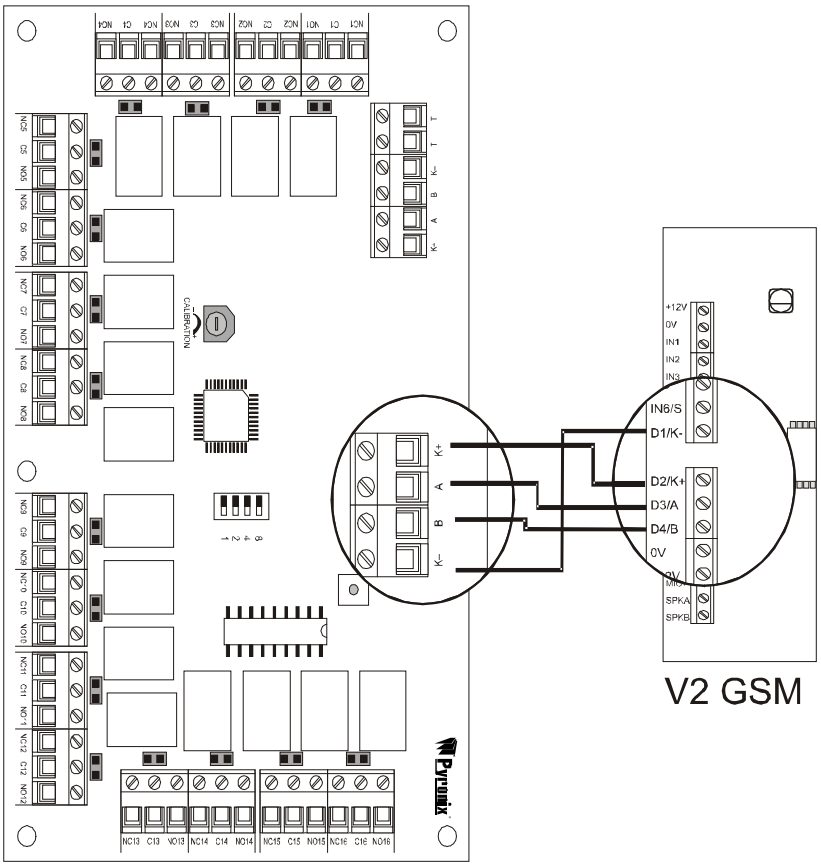


7.8 CONNECTING AN OUTPUT EXPANDER (PCX-ROX16R)

Up to 3 output expanders may be installed on the V2 GSM. Each output expander must be individually addressed using the dip switches:



Address	Switch			
	1	2	4	8
00	OFF	OFF	OFF	OFF
01	ON	OFF	OFF	OFF
02	OFF	ON	OFF	OFF

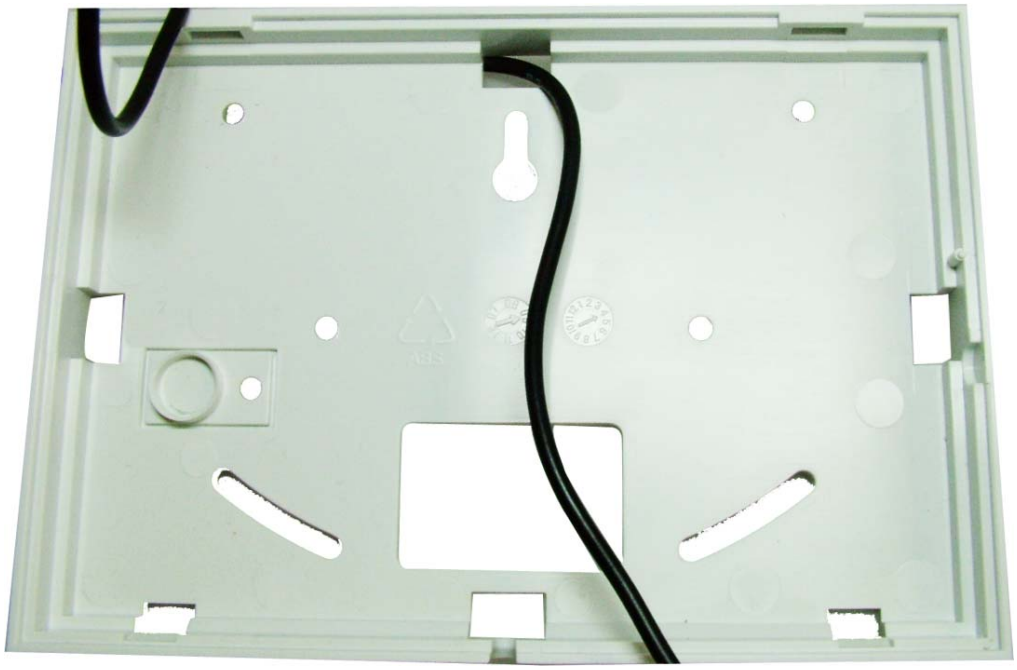


Output Map:
Onboard Outputs: PGM1-4 onboard
1st Output Expander: PGM 1-16 expander
2nd Output Expander: PGM 17-32 expander
3rd Output Expander: PGM 33-48 expander

7.9 THE ANTENNA

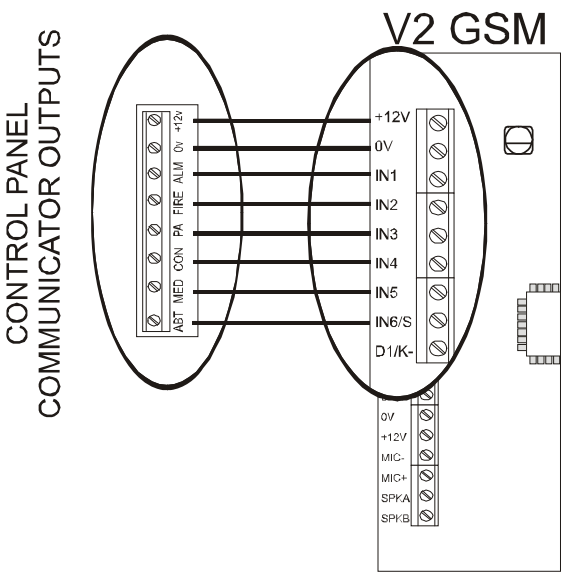
The antenna cable must be guided through the clip present at the top right of the V2 printed circuit board (as shown)

The cable should then be guided through the top hole on the back of the V2 as shown below.

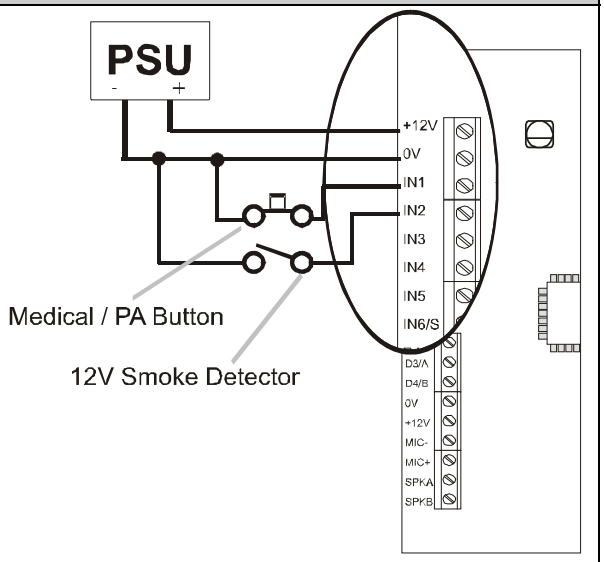


7.10 CONNECTING OTHER EQUIPMENT

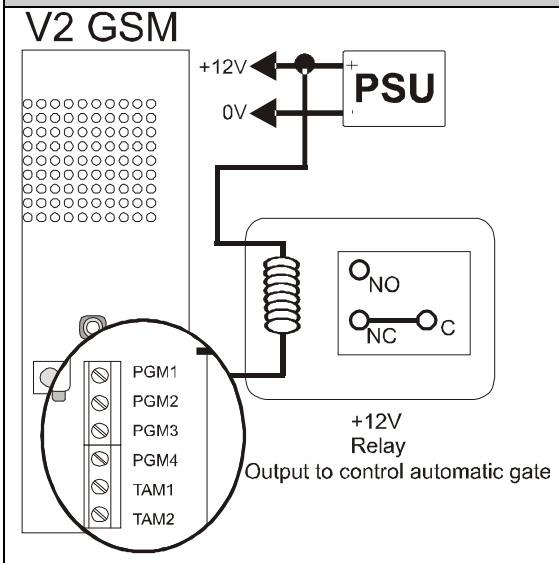
Connecting Inputs



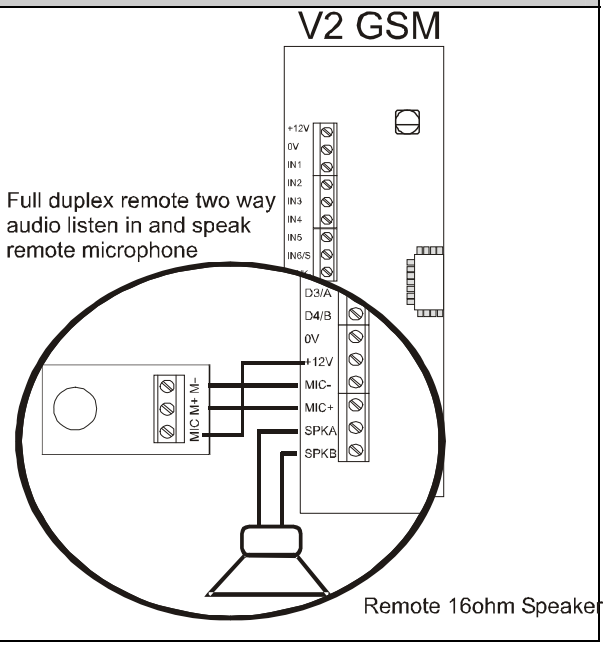
Connecting Smoke / PA Buttons



Connecting Relays



Connecting Remote Speakers/Mics



CHAPTER 8: SHORTCUT FUNCTION REFERENCE

100 PLAY / REC SYSTEM MESSAGES
- 101 Play / record low battery message
- 102 Play / record battery restore message
- 103 Play / record test message
- 131 SMS low-battery message
- 132 SMS test message
- 133 SMS battery restore message

150 CALL REDIALS
- 151-159 Redials for tel#1 [151], Redials for tel#2[152] … Redials for tel#9 [159]

160 COPY TEL#1 REDIALS TO ALL

165 IMMEDIATE NO. OF REDIALS

170 DEFERRED REDIAL DELAY

171 DEFAULT TIME OUT

172 CALLING STRATEGY

173 DIAL ALL NUMBERS

174 VOICE MESSAGE REPEATS

175 TEST CALL PERIOD

176 S.O.L. TEST CALL ONLY

177 RINGS BEFORE ANSWER

180 ENABLE REMOTE CONTROL

200 TEL NUMBER INPUT ALLOCATION
- 201-209 Enable inputs for tel#1 [201], Enable inputs for tel#2 [202] ... Enable inputs for tel#3 [203]

250 COPY TEL#1 ALLOC. TO ALL

300 ENABLE A.N.R. FOR TEL'
- 301-309 Enable A.N.R. tel#1 [301], Enable A.N.R. tel#2 [302] … Enable A.N.R. tel#3 [303]

350 AUTO LEARN INPUT STATUS

400 PROGRAM INPUT STATUS
- 401-414 Program status for inp#1 [401], Program status for inp#2 [402] … Program status for inp#14 [414]

450 INPUT RESPONSE TIME
- 451-456 Response for input#1 [451], Response for input#2 [452] … Response for input#6 [456]

500 INPUT TRIGGER VOLTAGE
- 501-506 Trigger volts for inp#1 [501], Trigger volts for inp#2 [502] … Trigger volts for inp#6 [506]

530 INPUT RESTORE VOLTAGE
- 531-536 Restore volts for inp#1 [531], Restore volts for inp#2 [532] … Restore volts for inp#6 [536]

550 LOCAL INP. DIAGNOSTICS
- 551-536 Diagnostic for input#1 [551], Diagnostic for input#2 [552] … Diagnostic for input#6 [556]

580 ENABLE ABORT INPUT#6

581 ENABLE STATUS INPUT#5

600 **CALL TELEPHONE NUMBER**

601 **SET SIM-CARD SECRET PIN**

602 **TEST LISTEN-IN MIC**

603 **TEST REMOTE SPEAKER**

604 **VIEW EVENT LOG**

605 **ERASE EVENT LOG**

606 **CHANGE ENGINEER CODE**

607 **REST TO FACTORY DEFAULTS**

608 **SIM TELEPHONE NUMBER**

650 **ENABLE EXP OUTPUT MODULES**

650-652 Enable EXP output modules:0 [650], … Enable EXP output modules:3 [652]

660 **PGM OUTPUT FUNCTIONS**

661-664 PGM#1 output function [661], PGM#2 output function [662] … PGM#4 output function [664]

680 **PGM OUTPUT TIMERS**

681-684 PGM#1 timer/follow input [681], PGM#2 timer/follow input [682] … PGM#4 timer/follow input [684],

700 **CONTROL OUTPUT**

701-704	PGM#1 output control [701]…	- 4 on board outputs
751-798	PGM#48 EXP output control [798]…	- 48 outputs on the output expanders

999 **QUIT/EXIT PROGRAMMING**

Secure Holdings
Pyronix House
Braithwell Way
Hellaby
Rotherham
S66 8QY

Customer Support line (UK only): +44(0)845 6434 999 (local rate)
Or telephone: +44(0)1709 535225

Hours of business: 8:00 AM – 6:30 PM, Monday to Friday

Email: customer.support@pyronix.com

Website: www.pyronix.com